TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2019-07-01-01** **Date: 20-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-18
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	18-09-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Note:-
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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2019-07-01-01** **Date: 20-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-18
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	18-09-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2019-07-01-01**	**Date: 29-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.	
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	26-09-18	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of test	:	26-09-18	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-S
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2019-07-01-01**	**Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.	
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	28-09-18	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	28-09-18	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.20
4	Average percentage	%	5.4	

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2019-07-01-01 **Date: 12-11-18**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.

Agency : Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.

Customer Reference : EE(YNK.D)E-PMT-19/W.O/40/2018-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 10-11-18

Type of Mix : BC (Bituminous Concrete)

Date of test : 10-11-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	6.20
4	Average percentage	%	6.1	

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2019-07-01-01 **Date: 22-12-18**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.

Agency : Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.

Customer Reference : EE(YNK.D)E-PMT-19/W.O/40/2018-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 20-12-18

Type of Mix : BC (Bituminous Concrete)

Date of test : 20-12-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	468	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.40	6.20
4	Average percentage	%	6.3	

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TEST REPORT OF FINE AGGREGATE

Date: 28-12-18

Lab ID	:	CP-2019-07-01-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-18
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	26-12-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	240	322	32.2	67.8	30-70	55-90	75-100	90-100
5	600 micron	205	527	52.7	47.3	15-34	35-59	60-79	80-100
6	300 micron	203	730	73.0	27.0	5-20	8-30	12-40	15-50
7	150 micron	190	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-07-01-01** **Date: 28-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-07-01-01** **Date: 31-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-12-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-07-01-01 **Date: 31-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-07-01-01 **Date: 09/01/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.

Agency : Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/40/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-01-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/01/2019	09/01/2019	149.22 X 151.27 X 150.11	22574	8.265	578.6	25.6	25.4
2	Cement Concrete Pavement	M30	02/01/2019	09/01/2019	149.66 X 151.38 X 151.19	22655	8.668	598.3	26.4	
3	Cement Concrete Pavement	M30	02/01/2019	09/01/2019	150.60 X 151.73 X 150.49	22851	8.538	554.6	24.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-07-01-01 **Date: 09/01/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.

Agency : Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/40/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-01-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/01/2019	09/01/2019	149.63 X 149.35 X 149.38	22348	8.265	568.5	25.4	25.5
2	Cement Concrete Pavement	M30	02/01/2019	09/01/2019	149.79 X 150.74 X 149.46	22580	8.668	591.8	26.2	
3	Cement Concrete Pavement	M30	02/01/2019	09/01/2019	149.45 X 151.23 X 149.91	22601	8.538	558.5	24.7	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2019-07-01-01**	**Date: 28-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.	
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	26-09-18	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of test	:	26-09-18	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Samples will be disposed after 90 days from the date of issue of test certificate

AE-02

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2019-07-01-01**	**Date: 04-02-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.	
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	02-02-19	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	02-02-19	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.20
4	Average percentage	%	5.4	

AE-2
A.E.E

CIVIL Pro Sig..... Date..... BANGALORE

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R RUDRAPRASAD
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AE-02

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2019-07-01-01**	**Date: 17-04-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Providing Pot Hole Filling in Chowdeshwari Ward No.02 of Yelahanka Sub Division.	
Agency	:	Sri.T.K.Shankarappa, No.60, Kempaiah Building, Ananthapura, S.N.Halli Post, Yelahanka, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/40/2018-19	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	15-04-19	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	15-04-19	

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	474	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.20	5.60
4	Average percentage	%	5.4	

AE-2
A.E.E

AE-01

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager